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EXAMINER

CAMPOS, YAIMA

PAPER NUMBER

4302

P O Box 1450 Alexandria, Virgima 22313-1450 www.uspto.gov

# NOTICE OF ALLOWANCE AND FEE(S) DUE

4955 759n 05/13/2009

WARE FRESSOLA VAN DER SLUYS & ADOLPHSON, LLP BRADFORD GREEN, BUILDING 5 755 MAIN STREET, P O BOX 224 MONROE, CT 06468

ARTHNIT 2185 DATE MAILED: 05/13/2009

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO 915-007.087 Matti Floman

04/19/2004 TITLE OF INVENTION: MEMORY WITH SINGLE AND DUAL MODE ACCESS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(8) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	08/13/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

10/828.516

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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# Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This f appropriate. All further c indicated unless corrected maintenance fee notificati	form should be used f orrespondence includin d below or directed oth ons.	or trang the	nsmitting the ISSU Patent, advance on in Block 1, by (a	TE FEE and PUBLIG ders and notification of specifying a new of					hould be completed where correspondence address as trate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
4955 7590 65/19/2009 WARE FRESSOLA VAN DER SLUYS & ADOLPHSON, LI BRADFORD GREEN, BUILDING 5 755 MAIN STREET, P O BOX 224 MONROE, CT 69468					I bo	Cer	tificate	e of Mailing or Trans	mission g deposited with the United st class mail in an envelope above, or being facsimile ate indicated below.
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					⊢				(Signature)
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APPLICATION NO.	TION NO. FILING DATE			FIRST NAMED INVENTOR			ATTORNEY DOCKET NO.		CONFIRMATION NO.
10/828,516	04/19/2004			Matti Floman				915-007.087	4302
TITLE OF INVENTION:									
APPLN. TYPE	SMALL ENTITY	IS	SUE FEE DUE	PUBLICATION FEE I	DUE	PREV. PAID ISSUE	SFEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO		\$1510	\$300	\$0 \$1810 08/13/2			08/13/2009	
EXAMINER ART UNIT		ART UNIT	CLASS-SUBCLAS	S					
CAMPOS, YAIMA 2185			2185	711-149000					
"Fee Address" indic PTO/SB/47; Rev 03-02 Number is required.  3. ASSIGNEE NAME AN	ndence address (or Cha 7122) attached. cation (or "Fee Address" c or more recent) attach TO RESIDENCE DATA sss an assignce is identi in 37 CFR 3.11. Comp	nge of 'Indiced. Us	Correspondence ation form e of a Customer	(I) the names of or agents OR, alte (2) the name of a registered attorne 2 registered paten listed, no name wi	up to rnativ single y or a t attor ill be or typ the pe	e firm (having as a agent) and the nam meys or agents. If printed. se) atent. If an assign assignment.	memb es of u no nan	per a 2p to ne is 3	ocument has been filed for
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NOTE: The Issue Fee and interest as shown by the re	Publication Fee (if requeeords of the United Sta	ired) tes Pat	will not be accepted ent and Trademark	from anyone other t Office.	han ti	he applicant; a regi	stered.	attorney or agent; or th	ne assignee or other party in
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DATE MAILED: 05/13/2009

FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
04/19/2004	Matti Floman	915-007.087	4302	
05/13/2009		EXAM	INER	
LA VAN DER SLU	CAMPOS, YAIMA			
EN, BUILDING 5	ART UNIT	PAPER NUMBER		
Г, Р О ВОХ <b>224</b> 68	2185			
	04/19/2004 0 05/13/2009 .A VAN DER SLU' EN, BUILDING 5 Γ, P O BOX 224	04/19/2004 Matti Floman  0 69/13/2009  A VAN DER SLUYS & ADOLPHSON, LLP EN, BUILDING 5 F, P O BOX 224	04/19/2004 Matti Floman 915-007.087  0 65/13/2009 EXAM  A VAN DER SLUYS & ADOLPHSON, LLP  CAMPOS  N, BUILDING 5  F, P O BOX 224  2185	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 249 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 249 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

#### Application No. Applicant(s) 10/828,516 FLOMAN ET AL. Notice of Allowability Examiner Art Unit YAIMA CAMPOS 2185 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 3/13/09. 2. The allowed claim(s) is/are 24-27 and 30-58. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)  $\square$  All b) Some\* c) None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). \* Certified copies not received: \_\_\_\_\_. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

U.S. Patent and Trademark Office PTOL-37 (Rev. 08-06)  Notice	ce of Allowability Part of Paper No./Mail Date 2009050
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Primary Examiner, Art Unit 2185	
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of Biological Material	9.  Other
Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit	Examiner's Statement of Reasons for Allowance
□ Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Date 7. ☑ Examiner's Amendment/Comment
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	<ol><li>Interview Summary (PTO-413),</li></ol>
Attachment(s)  1.  Notice of References Cited (PTO-892)	5. Notice of Informal Patent Application
auacieu examiners comment regarding REQUIREMENT FC	IN THE DEPOSIT OF BIOLOGICAL WATERIAL.
<ol> <li>DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FO</li> </ol>	
Identifying indicia such as the application number (see 37 CFR 1.84 each sheet. Replacement sheet(s) should be labeled as such in the	(c)) should be written on the drawings in the front (not the back) of header according to 37 CFR 1.121(d).
<ul><li>(b) ☐ including changes required by the attached Examiner's A Paper No./Mail Date</li></ul>	
1) hereto or 2) to Paper No./Mail Date	
(a) including changes required by the Notice of Draftsperson	n's Patent Drawing Review (PTO-948) attached
5. CORRECTED DRAWINGS ( as "replacement sheets") must be	pe submitted.
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be submitted INFORMAL PATENT APPLICATION (PTO-152) which gives</li> </ol>	ed. Note the attached EXAMINER'S AMENDMENT or NOTICE OF reason(s) why the oath or declaration is deficient.

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#### DETAILED ACTION

 As per the instant Application having Application number 10/828,516; the examiner acknowledges the applicant's submission of the Amendment dated 3/13/2009. Claims 24, 27, 30-31, 33, 41-42, 45 and 58 have been amended and claims 1-23 and 28-29 have been canceled.

# EXAMINER'S AMENDMENT

Claims 24-27 and 30-58 are pending.

- 2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- Authorization for this examiner's amendment was given in a telephone interview with Alfred A. Fressola (Reg. No. 27,550) on May 1, 2009.
- The application has been amended as follows:

#### Claim 24 (Currently amended)

A memory unit comprising:

- at least two memory areas configured to store data,
- first terminals comprising a data port, the first terminals configured to access data within the memory areas,
- second terminals comprising a data port, the second terminals configured to access data within the memory areas.

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-  $\underline{at\ least\ one\ of}$  the first terminals and the second terminals comprising a control port and an

address port, and

- at least two access controllers selectively providing:

- sole addressing and accessing data through one of the terminals, and

- individual addressing and accessing data through each of the terminals, respectively,

- wherein in case of sole addressing and accessing the data, the access controllers provide access

to all of the at least two memory areas by a respective control port and address port of only one

of the first terminals and second terminals and provide the data within all of the at least two

memory areas through data ports of both the first terminals and second terminals.

Claim 41 (Currently amended)

A method comprising:

- receiving access signals and providing data from memory areas for storing data through first

terminals comprising a data port,

- receiving access signals and providing data from said memory areas through second terminals

comprising a data port,

- at least one of the first terminals and the second terminals comprising a control port and an

address port, and

- selectively receiving access signals solely through one of said first and second terminals and

providing data from memory areas through both said first and second terminals, and

- receiving access signals and providing data from memory areas through both of said

first and second terminals individually, respectively,

- wherein in case of sole addressing and accessing the data, the providing access to all of the

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memory areas is by a respective control port and address of only one of the first terminals and

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second terminals and the data within all of the memory areas is provided through data ports of

both of said first terminals and second terminals.

Claim 42 (Currently amended)

A system for providing memory comprising:

- a first processor having a data port, the first processor in communication with a memory unit

through first terminals having a data port, and a second processor having a data port, the

second processor in communication with the memory unit through second terminals having a

data port,

- at least one of the first terminals and the second terminals comprising a control port and an

address port, and

- at least two access controllers selectively providing:

- sole addressing and accessing data by one of the processors, and

- individually addressing and accessing data by each of the processors, respectively,

- wherein in case of sole addressing and accessing the data, the access controllers provide access

to all of the at least two memory areas by a respective control port and address port of only one

of said first and second processors terminals and provide the data within all of the at least two

memory areas through data ports of both of said first and second processors terminals.

Claim 45 (Currently amended)

A memory unit comprising:

- at least first and second means for storing data,

- first means for accessing data within the first and second means for storing data, said first

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means for accessing data, said first means for accessing data having a data port, and

- second means for accessing data within the first and second means for storing data, said second

means for accessing data having a data port,

- at least one of the first means for accessing data and the second means for accessing data

comprising a control port and an address port, and

- means for selectively providing

- sole addressing and accessing data through one of the first and second means for accessing

data, and

- individual addressing and accessing data through each of the first and second means for

accessing data, respectively,

- wherein in case of sole addressing and accessing the data, said means for selectively providing

access to the first and second means for storing data is by a respective control port and address

port of only one of the first and second means for accessing data within all of the at least two

memory areas and provides the data within all of the at least two memory areas through data

ports of both the first and second means for accessing data.

Claim 58 (Currently amended)

An apparatus, comprising:

- at least two memory areas configured to store data,

- first terminals having a data port configured to access data within the memory areas,

- second terminals having a data port configured to access data within the memory areas,

- at least one of the first terminals and the second terminals comprising a control port

and an address port, and

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- at least two access controllers selectively providing:

- sole addressing and accessing data through one of the terminals, and

- individual addressing and accessing data through each of the terminals, respectively,

- wherein in case of sole addressing and accessing the data, the access controllers provide access

to both of the at least two memory areas by a respective control port and address port of only one

of the first terminals and second terminals and provide the data within both of the at least two

memory areas through data ports of both the first terminals and second terminals.

REASONS FOR ALLOWANCE

5. Per the instant office action, claims 24, 41-42, 45 and 58 are considered as allowable

subject matter. The following is a statement of reasons for the indication of allowable subject

matter:

6. As per <u>claim 24</u>

The primary reasons for allowance of claim 24 in the instant applicant is the claimed

combination with the inclusion in this claim of the limitation of a memory unit comprising "...  $\underline{at}$ 

least two memory areas configured to store data... first terminals comprising a data port...

second terminals comprising a data port... the first terminals and the second terminals

comprising a control port and an address port... in case of sole addressing and accessing the

data, the access controllers provide access to all of the at least two memory areas by a respective

control port and address port of only one of the first terminals and second terminals and provide

the data within all of the at least two memory areas through data ports of both the first terminals

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and second terminals." The prior art of record neither anticipates nor renders obvious the aboverecited combination

# 7. As per <u>claim 41</u>

The primary reasons for allowance of claim 41 in the instant applicant is the claimed combination with the inclusion in this claim of the limitation of a method comprising "...receiving access signals and providing data from memory areas for storing data through first terminals comprising a data port, receiving access signals and providing data from said memory areas through second terminals comprising a data port... the first terminals and the second terminals comprising a control port and an address port... wherein in case of sole addressing and accessing the data, the providing access to all of the memory areas is by a respective control port and address of only one of the first terminals and second terminals and the data within all of the memory areas is provided through data ports of both of said first terminals and second terminals." The prior art of record neither anticipates nor renders obvious the above-recited combination

# 8. As per <u>claim 42</u>

The primary reasons for allowance of claim 42 in the instant applicant is the claimed combination with the inclusion in this claim of the limitation of a system comprising "... a first processor, the first processor in communication with a memory unit through first terminals having a data port, and a second processor, the second processor in communication with the memory unit through second terminals having a data port, the first terminals and the second terminals comprising a control port and an address port, and... wherein in case of sole addressing and accessing the data, the access controllers provide access to all of the at least two memory

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areas by a respective control port and address port of only one of said first and second terminals and provide the data within all of the at least two memory areas through data ports of both of said first and second terminals." The prior art of record neither anticipates nor renders obvious the above-recited combination.

# 9. As per <u>claim 45</u>

The primary reasons for allowance of claim 45 in the instant applicant is the claimed combination with the inclusion in this claim of the limitation of a memory unit comprising "...first means for accessing data within the first and second means for storing data, said first means for accessing data, said first means for accessing data having a data port, and second means for accessing data within the first and second means for storing data, said second means for accessing data having a data port, the first means for accessing data and the second means for accessing data comprising a control port and an address port...wherein in case of sole addressing and accessing the data, said means for selectively providing access to the first and second means for storing data is by a respective control port and address port of only one of the first and second means for accessing data within all of the at least two memory areas and provides the data within all of the at least two memory areas through data ports of both the first and second means for accessing data." The prior art of record neither anticipates nor renders obvious the above-recited combination.

### 10. As per <u>claim 58</u>

The primary reasons for allowance of claim <u>58</u> in the instant applicant is the claimed combination with the inclusion in this claim of the limitation of an apparatus comprising "... first terminals having a data port configured to access data within the memory areas, second

terminals having a data port configured to access data within the memory areas, the first terminals and the second terminals comprising a control port and an address port... wherein in case of sole addressing and accessing the data, the access controllers provide access to both of the at least two memory areas by a respective control port and address port of only one of the first terminals and second terminals and provide the data within both of the at least two memory areas through data ports of both the first terminals and second terminals." The prior art of record

11. Dependent <u>claims 25-27, 30-40, 43-44, 46, 47-57</u> are allowable at least for the reasons recited above including all the limitations of the allowable independent base claim upon which they depend.

neither anticipates nor renders obvious the above-recited combination.

12. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### DIRECTION OF FUTURE CORRESPONDENCES

- 13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yaima Campos whose telephone number is (571)272-1232. The examiner can normally be reached on Monday to Friday 8:30 AM to 5:00 PM.
- 14. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sanjiv Shah can be reached on (571)272-4098. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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15. Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

May 1, 2009

/Tuan V. Thai/ Primary Examiner, Art Unit 2185 /Yaima Campos/ Examiner, Art Unit 2185